



National Aeronautics and  
Space Administration



# NASA Wildland Fires



USING EARTH  
OBSERVATIONS TO SOLVE  
OUR PLANET'S MOST  
PRESSING ISSUES.

ABOUT APPLIED SCIENCES

OUR PROGRAM AREAS



AGRICULTURE



CAPACITY BUILDING



CLIMATE & RESILIENCE



DISASTERS



ECOLOGICAL FORECASTING



HEALTH & AIR QUALITY



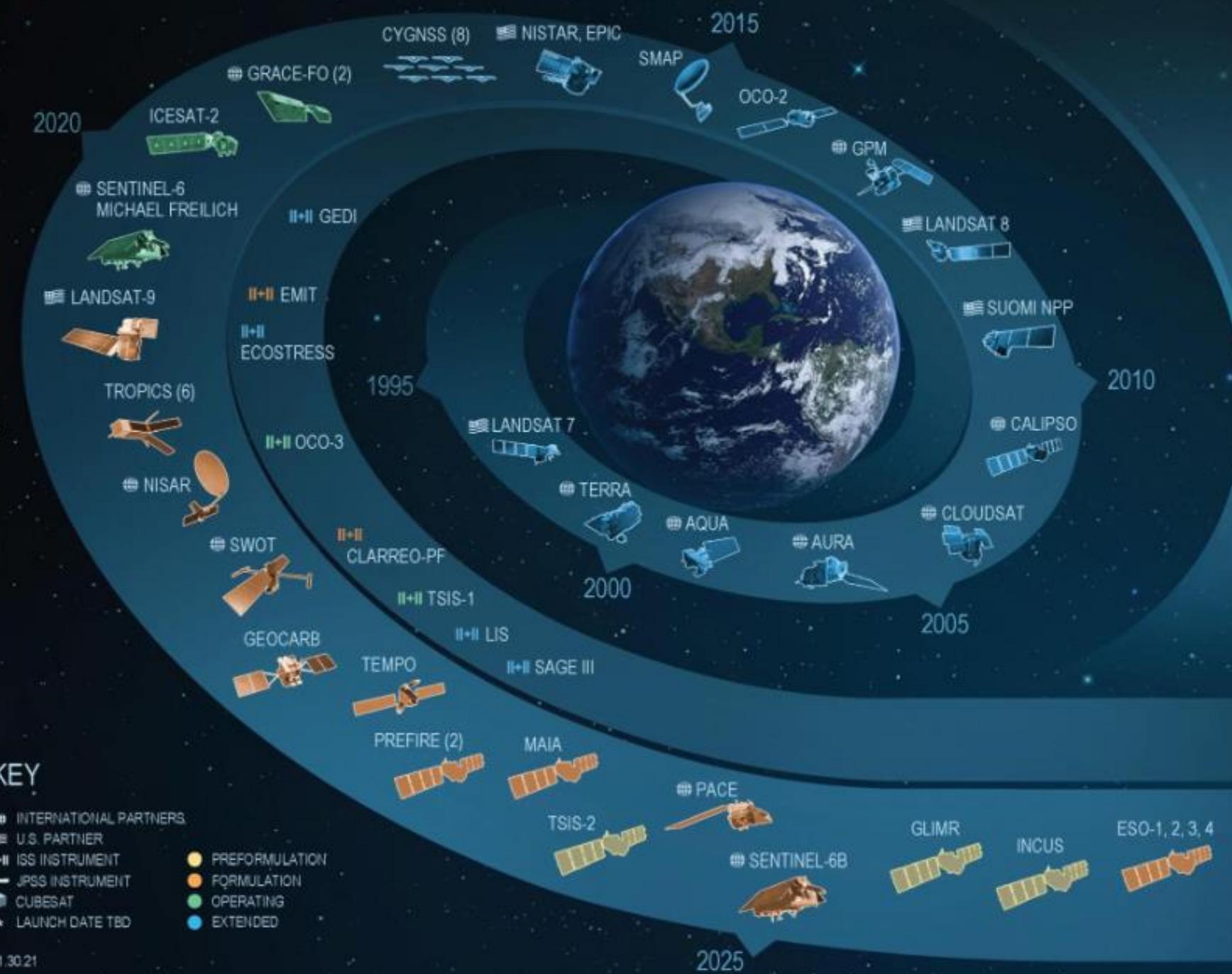
WATER RESOURCES



WILDLAND FIRES



# EARTH FLEET



## INVEST/CUBESATS

- CSIM-FD 2023
- HARP 2022
- CIRIS 2023
- CTIM\* 2022
- HYTI\* 2022
- SNOOPI\* 2022
- NACHOS 2022
- NACHOS2\* 2022

## JPSS INSTRUMENTS

- OMPS-LIMB 2022
- LIBERA 2027

## ISS INSTRUMENTS



**AFSI**

Actionable Fire Science  
Information Hub

*A place for stakeholders to share insights and information  
to adapt to, manage, and live with fires.*

Initiatives

*Building A Community*



Pre-Fire

Active Fire

Post-Fire

NASA Wildland FireSense

# Solving the “Impossible”

## ➤ Science for Action

- Learning to Manage and Thrive with Fires
- Collective Outcomes Thriving with Fire

## ▪ Adaptative Fire Management via NASA S&T

- *Sharing and co-developing scalable techniques and integrated system solutions to improve adaptation in fire-prone areas and functional resilience*

## ▪ Priorities and Opportunities

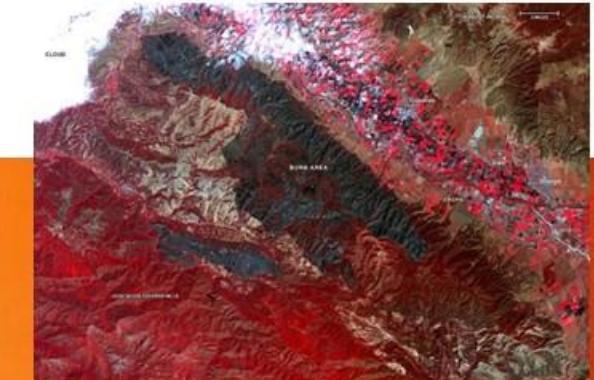
- Projects, Tools and Decision Support
- Communities-of-Practice
- S&T Wildland Fire Showcase

# Science Applied

*Enabling new perspective on the Wildland-Urban Interface:*



Merging Satellite and Socio-Economic Data to quantify defensible space, invasive species and vulnerability in the WUI



*It is estimated that the wildland-urban interface is the fastest growing land-use type in the conterminous United States*



WILDFIRES | SEPTEMBER 2, 2020 1:49 AM  
New Wildfire Research Center Opens at SJSU

A new wildfire research center is opening Tuesday at San Jose State University, university officials announced. Scott Budman reports.



6:06 70° NBC BAY AREA



# Innovation, Co-production, and Collaboration Readyng Science & Technology Decision-Support Tools, Responsive to Stakeholders and Reducing Risks for More Proactive, Effective and Valued Management



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## Implementation Applications



## Innovation Technology



## Exploration and Discovery

### Ecosystem

